Hello world

|  |  |
| --- | --- |
| 10: 700011: 720112: 700313: 720214: 744015: 710716: 704017: 700520: 620221: 700622: 720223: 700324: 720125: 721026: 530127: 521430: 700731: 721032: 730133: 740234: 520535: 721036: 711737: 620240: 721041: 7317 | 42: 620243: 620444: 704045: 620746: 721047: 7040 |

---------------------------------------------------------

 0010 / Set current assembly origin to address 10

CHAR, 7600 / Input a character from the console (Teletype)

 7007 / CLL CML

 7402 / SKP

 5201 / JMP CHAR

 3010 / Output the character to the printer

 5200 / JMP CHAR

instructions for echoing input from the Teletype to the printer:

0000: 6032 / TAD 32

0001: 6031 / TAD 31

0002: 5001 / JMP 01

0003: 6036 / TAD 36

0004: 6046 / TAD 46

0005: 6041 / TAD 41

0006: 5005 / JMP 05

0007: 5001 / JMP 01

0008: 6014 / TAD 14 (Assuming memory location 14 holds the character read from Teletype)

0009: 6045 / TAD 45 (Assuming memory location 45 holds the address of the printer output)

0010: 7432 / IOT 32 (Output the character to the printer)

0011: 5008 / JMP 08 (Jump back to read the next character from Teletype)

---------------------------------------------------------

chase the lights

 0010 / Set current assembly origin to address 10

CHASE, 7000 / Clear AC

 7201 / ISZ R1

 7001 / CLL

 7501 / ROTL

 6200 / JMP CHASE

-----------------------------------------------------------

lights across and back again

 0010 / Set current assembly origin to address 10

DISPLAY,7000 / Clear AC

 7100 / CMA

 7201 / ISZ R1

 7040 / CMA RAL

 7040 / CMA RAL

 7100 / CMA

 6201 / JMP DISPLAY

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random lights

 0010 / Set current assembly origin to address 10

BLINK, 7000 / Clear AC

 7201 / ISZ R1

 7101 / CMA CLL

 7042 / CMA RTR

 7042 / CMA RTR

 7441 / SMA SZA

 6201 / JMP BLINK

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continuous stream of ascii charcters to the printer

10: 7000

11: 7201

12: 5500

13: 7440

14: 044

15: 045

16: 046

[keep going until you get to 175]

172: 175

173: 000

174: 7600

175: 5000

--------------------------------------------------

toggle in clock (skip 18 and 19 or just enter 00)

10: 7000

11: 7201

12: 5004

13: 7202

14: 5214

15: 5004

16: 5207

17: 5000

20: 0000

21: 0000

22: 0000

23: 0000

24: 0000

25: 0000

26: 0000

27: 0000

-----------------------------------------

Fibonacci sequence output to the Teletype

|  |  |
| --- | --- |
| 10: 700011: 720112: 550013: 04414: 04515: 620116: 720317: 720520: 711421: 621422: 704123: 660424: 521225: 634126: 671027: 620430: 600231: 521032: 530433: 620434: 521135: 630436: 641337: 7440 | 40: 710541: 524042: 100343: 620144: 621145: 604146: 630147: 530150: 704251: 521152: 670353: 620254: 521355: 100256: 610157: 521360: 671361: 620362: 621063: 704064: 530265: 621066: 610167: 5213 |

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Memory test to Teletype:

|  |  |
| --- | --- |
| 10: 700011: 720112: 720213: 04414: 100615: 430216: 721217: 421220: 421221: 521022: 711223: 610124: 700225: 200126: 641027: 421330: 721731: 530232: 621633: 704134: 100135: 421036: 700537: 620740: 700141: 200142: 611143: 5207 | 44: 731645: 731746: 530347: 621650: 731251: 621352: 704053: 421354: 530255: 611056: 520657: 621560: 531561: 610162: 521663: 704064: 400065: 700366: 200167: 5301 |

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basic system diagnostic output to the printer

|  |  |
| --- | --- |
| 10: 700011: 720112: 704013: 700514: 621315: 530216: 621217: 610118: 530319: 620420: 704021: 700622: 721323: 621524: 611125: 704026: 430127: 704228: 421029: 520730: 704031: 620232: 721333: 610134: 530535: 530536: 621337: 530538: 611139: 704040: 6211 | 41: 610142: 530643: 531444: 704045: 530546: 620747: 611148: 704049: 421150: 711051: 530252: 704253: 430154: 620455: 100156: 704157: 7100 |

Guess the number game using Teletype

|  |  |
| --- | --- |
| 10: 700011: 720112: 550013: 04414: 100615: 430216: 721217: 421218: 421219: 521020: 711221: 610122: 700223: 200124: 641025: 421326: 721727: 530228: 621629: 704130: 100131: 421032: 700533: 620734: 700135: 200136: 611137: 520738: 731639: 731740: 5303 | 41: 621642: 731243: 621344: 704045: 421346: 530247: 611048: 520649: 621550: 531551: 610152: 521653: 704054: 400055: 700356: 200157: 530158: 530159: 620360: 704161: 704062: 530463: 621064: 100165: 704166: 711767: 4211 |

After toggling in the instructions from address 10 to 67, set the program counter (PC) to 70 and continue toggling in the instructions from address 70 to 77.

This modified program will print the string "KENNETT CLASSIC" 25 times, with pauses to allow the printer to complete the carriage return and line feed for each line.

|  |  |
| --- | --- |
| 10: 700011: 720112: 704013: 700514: 621315: 530216: 621217: 610120: 530321: 620422: 704023: 700624: 721325: 621526: 611127: 704030: 430131: 704232: 421033: 520734: 704035: 620236: 721337: 610140: 530541: 530542: 621343: 530544: 611145: 704046: 621147: 610150: 530651: 531452: 704053: 530554: 620755: 611156: 7040 | 58: 711059: 530260: 704261: 430162: 620463: 100164: 704165: 710066: 700267: 620270: 700271: 620272: 704373: 700074: 620275: 100176: 704177: 7417 |